

<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. I-1-0065.10US</p>	<p>SERIAL NO. 10/663,240</p>
	<p>APPLICANT Bolgiano et al.</p>	
	<p>FILING DATE September 16, 2003</p>	<p>GROUP 2419</p>

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,081,748	03/1978	Batz			
		4,099,121	07/1978	Fang			
		4,128,809	12/1978	Kage			
		4,426,712	01/1984	Gorski-Popiel			
		4,530,087	07/1985	Yamamoto			
		4,599,734	07/1986	Yamamoto			
		4,644,351	02/1987	Zabarsky			
		4,675,863	06/1987	Paneth et al.			
		4,727,590	02/1988	Kawano et al.			
		4,780,885	10/1988	Paul et al.			
		4,799,252	01/1989	Eizenhoffer et al.			
		4,901,307	02/1990	Gilhausen et al.			
		5,031,193	07/1991	Atkinson et al.			
		5,043,736	08/1991	Darnell et al.			
		5,046,066	09/1991	Messenger			
		5,056,106	10/1991	Wang et al.			
		5,058,200	10/1991	Huang et al.			
		5,068,916	11/1991	Harrison et al.			
		5,081,641	01/1992	Kotzin et al.			
		5,081,643	01/1992	Schilling			
		5,088,108	02/1992	Uddenfeldt et al.			
		5,097,484	03/1992	Akaiwa			
		5,101,501	03/1992	Gilhausen et al.			
		5,103,459	04/1992	Gilhausen et al.			
		5,109,390	04/1992	Gilhausen et al.			

EXAMINER	DATE CONSIDERED
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	5,124,915	06/1992	Krenzel			
	5,128,925	07/1992	Dornstetter et al.			
	5,155,689	10/1992	Wortham			
	5,164,942	11/1992	Kamerman et al.			
	5,166,951	11/1992	Schilling			
	5,177,765	1/5/1993	Holland et al.			
	5,193,101	09/1993	McDonald et al.			
	5,203,018	04/1993	Hirose			
	5,208,756	05/1993	Song			
	5,214,789	05/1993	George			
	5,218,367	06/1993	Sheffer et al.			
	5,218,618	06/1993	Sagey			
	5,223,844	06/1993	Mansell et al.			
	5,227,802	07/1993	Pullman			
	5,235,633	08/1993	Nass et al.			
	5,247,356	09/1993	Ciampa			
	5,260,943	11/1993	Comroe et al.			
	5,260,967	11/1993	Schilling			
	5,280,472	01/1994	Gilhausen et al.			
	5,283,767	02/1994	McCoy			
	5,289,499	02/1994	Weerackody			
	5,289,527	02/1994	Tiedemann, Jr.			
	5,293,645	03/1994	Sood et al. ¹			
	5,297,162	03/1994	Lee et al.			
	5,305,353	04/1994	Weerackody			
	5,321,696	04/1994	Buchholz et al.			
	5,323,384	06/1994	Norwood			
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	5,329,530	07/1994	Kojima			
	5,345,467	09/1994	Lomp et al.			
	5,347,535	09/1994	Karasawa et al.			
	5,365,516	11/1994	Jandrell			
	5,367,539	11/1994	Copley			
	5,371,734	12/1994	Fischer			
	5,371,780	12/1994	Amitay			
	5,373,502	12/1994	Turban			
	5,390,166	02/1995	Rohani et al.			
	5,420,883	05/1995	Swensen et al.			
	5,430,769	07/1995	Patsiokas et al.			
	5,442,625	08/1995	Gitlin et al.			
	5,479,448	12/1995	Seshadri			
	5,481,533	1/1996	Honig et al.			
	5,483,244	01/1996	Grube et al.			
	5,483,668	01/1996	Malkamaki et al.			
	5,506,863	4/9/1996	Meidan et al.			
	5,513,176	04/1996	Dean et al.			
	5,533,011	07/1996	Dean et al.			
	5,533,013	07/1996	Leppanen			
	5,553,076	9/3/1996	Behtash et al.			
	5,584,057	12/1996	Dent			
	5,594,737	01/1997	Pillekamp et al. ⁷			
	5,614,914	03/1997	Bolgiano et al.			
	5,625,876	04/1997	Gilhausen et al.			
	5,663,990	09/1997	Bolgiano et al.			
	5,684,793	11/1997	Kiema et al.			
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		5,748,669	05/1998	Yada			
		5,761,196	6/2/1998	Ayerst et al.			
		5,781,541	07/1998	Schnieder			
		5,859,879	01/1999	Bolgiano et al.			
		5,881,094	03/1999	Schilling			
		5,912,644	06/1999	Wang			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		0528090	02/1993	EP				
		2237706	05/1991	GB				
		2259430	03/1993	GB				
		H01-314443	12/1989	JP			X**	
		H02-302133	06/1992	JP			X	
		S63-286027	11/1988	JP			X	
		S63-286072	11/1988	JP			X**	
		S63-274236	11/1988	JP			X**	
		06-244814	09/1994	JP			X**	
		H05-244051	09/1993	JP			X**	
		H03-235077	10/1991	JP				
		H03-177669	08/1991	JP			X	
		S53-109328	08/1978	JP			X	
		H06-097914	04/1994	JP			X**	
		S63-065723	09/1989	JP			X	
		H02-3007	01/1990	JP			X	
		H05-211470	08/1993	JP ²			X**	

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							YES	NO
		H04-502844	08/1993	JP ³			X	
		H06-501349	01/1992	JP ⁵			X	
		199210890	06/1992	WO				
		199306669	04/1993	WO				
		199939455	08/1999	WO ¹⁰				
		199107036	05/1991	WO ⁴				
		199200639	01/1992	WO ⁶				
		199608908	03/1996	WO ⁸				
		199833346	07/1998	WO ⁹				

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		"Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System", TIA/EIA/IS-95-A, TIA Interim Standard, (May 1995).
		"Ultraphone, System Description GP110," InterDigital Communications Corporation, pgs. 1-17, (October 1993).
		"Ultraphone, System Technical Specification GP130, Interdigital Communications Corporation, pgs. 1-12, (January 1994).
		AZAD ET AL., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, pp. 4/1-4/5 (1994).
	*	BARAN, "On Distributed Communications Networks," IEEE Transactions on Communication Systems, Volume 12 (March 1964).
	*	BARAN, "On Distributed Communications Networks," RAND Corporation Paper, P-2626 (September 1962).

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	BLANZ ET AL., "Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, (May 1994).
	ERCEG ET AL., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, (June 1992).
	ESMAILZADEH ET AL., "Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique," IEEE, pgs. 345-348, (1992).
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	ESMAILZADEH ET AL., "Time Division Duplex Transmission of Direct Sequence Spread Spectrum Signals in Multipath Channels", IEEE, pgs. 1572-1576, (1994).
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	GHASSMZADEH ET AL., "Indoor Propagation and Fading Characterization of Spread Spectrum Signal at 2 GHz," IEEE, pgs. 56-60, (1992).
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	KAVEHRAD ET AL., "Direct-Sequence Spread Spectrum with DPSK Modulation and Diversity for Indoor Wireless Communications," IEEE, pgs. 224-236, (1987).
	KUBOTA ET AL., "A Time Diversity CDMA Scheme Employing Orthogonal Modulation for Time Varying Channels," IEEE 43rd Vehicular Technology Conference, pp. 444-447 (May 20, 1993).
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	PICKHOLTZ ET AL., "Field Tests Designed to Demonstrate Increased Spectral Efficiency for Personal Communications," IEEE Globcom, pgs. 878-882, (1991).
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	TIA/EIA Interim Standard; Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System; TIA/EIA/IS-95, (July 1993).
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¹ Corresponds to JP H05-211470; ² Corresponds to US 5,293,645; ³ Corresponds to WO 199107036; ⁴ Corresponds to JP H04-502844; ⁵ Corresponds to WO 199200639; ⁶ Corresponds to H06-501349; ⁷ Corresponds to WO 94/10812; ⁸ Corresponds to JP 10-509287; ⁹ Corresponds to JP 2000-507431; ¹⁰ Corresponds to JP 2002-502182.

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